

6.1.7 U.S. Electric Power Sector Cumulative Power Plant Additions Needed to Meet Future Electricity Demand (1)

<u>Electric Generator</u>	<u>Typical New Plant Capacity (MW)</u>	<u>Number of New Power Plants to Meet Demand</u>				
		<u>2010</u>	<u>2015</u>	<u>2020</u>	<u>2025</u>	<u>2030</u>
Coal Steam	600	9	19	23	23	23
Combined Cycle	400	2	17	18	32	93
Combustion Turbine/Diesel	160	8	37	75	138	216
Nuclear Power	1,350	-	1	5	5	5
Pumped Storage	145 (2)	-	-	-	-	-
Fuel Cells	10	-	-	-	-	-
Conventional Hydropower	20 (2)	-	27	38	67	117
Geothermal	50	-	3	13	27	47
Municipal Solid Waste	30	-	-	-	-	-
Wood and Other Biomass	80	-	-	-	-	-
Solar Thermal	100	1	7	7	8	8
Solar Photovoltaic	5	7	24	37	55	76
<u>Wind</u>	50	<u>252</u>	<u>535</u>	<u>537</u>	<u>581</u>	<u>604</u>
Total		280	674	757	944	1,202
Distributed Generation	160 (3)					

Note(s): 1) Cumulative additions after Dec. 31, 2009. 2) Based on current stock average capacity. 3) Combustion turbine/diesel data used.

Source(s): EIA, Annual Energy Outlook (AEO) 2011 Early Release, Dec. 2010, Table A9, p. 20-21 and Table A16, p. 32-33; EIA, Assumption to the AEO 2010, May 2010, Table 8.2, p. 91; and EIA, Electric Power Annual 2006, Sept. 2007, Table 2.2, p. 19 for pumped storage plant capacity and Table 2.6, p. 21 for hydroelectric plant capacity.